# Index to Volume X

## ARTICLES


| | Number | Page |
|---|---|---|
| Aluminum—Structural Metal of the Future<br>Herbert S. Meltzer, CE '47 | 8 | 12 |
| Army Engineers, Thoughts and Deeds<br>Colonel Carlton S. Proctor | 2 | 9 |
| Carbon Dioxide Fire Extinguishers<br>Ronald M. Taylor | 3 | 9 |
| Ceramic Industry Today, The<br>Roderick W. Pearson, ChE '47 | 6 | 12 |
| Chemical Engineering in the Future<br>Professor F. H. Rhodes | 3 | 7 |
| Communications<br>Richard E. Goll, V-12 | 1 | 15 |
| Constructing the Iraq Pipeline<br>Herbert S. Austin | 6 | 9 |
| Cornell's Post War Engineering Plans<br>Dean S. C. Hollister | 1 | 64 |
| Developments in Communications—1<br>Walter R. Jones, E.E. '25 | 1 | 17 |
| Developments in Communications—2<br>Prof. C. A. Priest | 1 | 19 |
| Engineering at Cornell<br>1. Material Processing<br>Richard E. Goll, V-12 | 2 | 14 |
| Engineering at Cornell<br>2. Electrical Engineering Laboratories<br>Lawrence W. Simmons, V-12 | 3 | 18 |
| Engineering at Cornell<br>3. Department of Physics<br>L. R. Anderson, V-12 | 4 | 14 |
| Engineering at Cornell<br>4. Chemical Engineering Laboratories<br>Roderick W. Pearson, ChE '47 | 5 | 16 |
| Engineering at Cornell<br>5. An Experiment in Instruction<br>Prof. Louis L. Otto | 6 | 14 |
| Engineering at Cornell<br>6. Civil Engineering Laboratories<br>Adam Paul Friedrich, CE '46 | 7 | 14 |
| Engineering at Cornell<br>7. Materials Testing Laboratory<br>Anthony S. Rugare, ME '47 | 8 | 16 |
| Engineer In Russia, An<br>Prof. George Winter, Ph.D. '40 | 8 | 8 |
| Foods and Farming<br>Marguerite E. Haven, ME '45 | 1 | 37 |
| Future of Frozen Foods, The<br>Dr. Donald K. Tressler, Ph.D. '18 | 1 | 39 |
| Hardenability of Steel<br>Anthony S. Rugare, ME '47 | 3 | 14 |
| Housing<br>Roderick W. Pearson, ChE '47 | 1 | 27 |
| Hundred Helicopters, A<br>Charles C. Hansen, ME '46, V-12 | 7 | 12 |
| Instructional Material for Training Programs<br>Professor Lynn A. Emerson | 6 | 7 |
| Inter-American Industrial Standardization<br>Ben-Ami Lipetz, ME '47 | 3 | 12 |
| Legibility of Symbols as an Engineering Problem, The<br>Dr. Curt Berger | 4 | 7 |
| Machine that Took Lithography out of the Stone Age, The<br>Alan R. Hirsch, AEME '48 | 4 | 12 |
| Man and Weather<br>Morrie S. Helitzer, ME '46 | 4 | 10 |
| Materials<br>Ben-Ami Lipetz, ME '47 | 1 | 21 |
| Materials Tomorrow<br>Prof. J. O. Jeffrey | 1 | 24 |
| Mighty Mites of Industry<br>L. R. Anderson, V-12 | 2 | 12 |
| New Material and Construction Methods<br>Bernard A. Savage, M.E. '25 | 1 | 33 |
| Note on Post War Architecture, A<br>Frederick L. Ackermann, Arch. '01 | 1 | 29 |
| On The Air<br>Billie P. Carter, ChE '48 | 5 | 13 |
| Physics Applied<br>Anthony R. Morrow | 3 | 32 |
| Physical Methods in Production Control<br>Dr. Henri S. Sack | 5 | 8 |
| Post War Expressways<br>Dean Gilmore D. Clarke, B.S. '13 | 1 | 12 |
| Post War Wage Trends<br>Frank D. Newberry, M.E. '01 | 1 | 7 |
| Powder Metallurgy<br>Donald S. Ironside, EE '46 | 8 | 14 |
| Quarter Century of Engineering Retrospect, A<br>Prof. L. D. Doty | 7 | 10 |
| Radar History<br>Jacques L. Zakin, ChE '47 | 5 | 11 |
| Some Useful Laboratory Gadgets<br>Robert H. Olson, ChE '46 | 8 | 14 |
| Transportation<br>Malcolm E. Steinberg, CE '47 | 1 | 9 |
| U.S.S. Dolphin in Search of a Storm, The<br>Dr. W. F. Durand | 2 | 7 |


## AUTHORS


| | | |
|---|---|---|
| Ackermann, Frederick L., Arch. '01 | 1 | 29 |
| Anderson, L. R., ME, V-12 | 2,4 | 12,14 |
| Austin, Herbert S. | 6 | 9 |
| Berger, Dr. Curt | 4 | 7 |
| Carter, Billie P., ChE '48 | 5 | 13 |
| Clarke, Dean Gilmore D., B.S. '13 | 1 | 12 |
| Doty, Prof. L. D. | 7 | 10 |
| Durand, Dr. W. F. | 2 | 7 |
| Emerson, Prof. Lynn A. | 6 | 7 |
| Friedrich, Adam Paul, CE '46 | 7 | 14 |
| Goll, Richard E., V-12 | 1,2 | 15,14 |
| Hansen, Charles C., ME '46, V-12 | 7 | 12 |
| Haven, Marguerite E., ME '45 | 1 | 37 |
| Helitzer, Morrie S., ME '46 | 4 | 10 |
| Hirsch, Alan R., AEME '48 | 4 | 12 |
| Hollister, Dean S. C. | 1 | 64 |
| Ironside, Donald S., EE '46 | 8 | 14 |
| Jeffrey, Prof. J. O. | 1 | 24 |
| Jones, Walter R., E.E. '25 | 1 | 17 |
| Lipetz, Ben-Ami, ME '47 | 1,3 | 21,12 |
| Meltzer, Herbert S., CE '47 | 8 | 12 |
| Morrow, Anthony R. | 3 | 18 |
| Newbury, Frank D., M.E. '01 | 7 | 7 |
| Olson, Robert H., ChE '46 | 8 | 14 |
| Otto, Prof. Louis L. | 6 | 14 |
| Pearson, Roderick W., ChE '47 | 1,5,6, | 27,16,12 |
| Priest, Prof. C. A. | 1 | 19 |
| Proctor, Colonel Carlton A. | 2 | 9 |
| Rhodes, Prof. F. H. | 3 | 7 |
| Rugare, Anthony S., ME '47 | 3,8 | 14,16 |
| Sack, Dr. Henri S. | 5 | 8 |
| Savage, Bernard A., M.E. '25 | 1 | 33 |
| Simmons, Lawrence W., V-12 | 3 | 18 |
| Steinberg, Malcolm E., CE '47 | 1 | 9 |
| Taylor, Ronald M. | 3 | 9 |
| Tressler, Dr. Donald K., Ph.D. '18 | 1 | 39 |
| Winter, Prof. George, Ph.D. '40 | 8 | 8 |
| Zakin, Jacques L., ChE '47 | 5 | 11 |


## PERSONALITIES


| | | |
|---|---|---|
| Accorsi, Frank, ME | 4 | 16 |
| Allen, Roland P., CE | 3 | 17 |
| Bailey, George H., ME '46 | 7 | 16 |
| Brown, Calvin G., CE '46 | 8 | 18 |
| Carrier, Willis H. | 8 | 23 |
| Christtensen, Paul, AE '46 | 7 | 16 |
| Cranch, Edmund T., ME | 3 | 16 |
| Day, David, CE | 4 | 17 |
| Edison, James E., ChE '46 | 5 | 18 |
| Fraser, John P., ChE | 3 | 16 |
| Gieseler, Henry, ME '46 | 8 | 18 |
| Hansen, Charles C., ME | 6 | 17 |
| Haven, Marguerite E., ME '45 | 6 | 16 |
| Heartfield, Seth Jr., CE '45 | 6 | 16 |
| Hecht, Malcolm, ChE '46 | 5 | 18 |
| Kornhauser, Edward, EE | 3 | 17 |
| Lipetz, Ben-Ami, ME '47 | 6 | 17 |
| Littlewood, William, ME '20 | 7 | 21 |
| Moore, Harry C., Jr., ME '46 | 8 | 18 |
| Pierce, Donald R., Arch '46 | 7 | 17 |
| Rasch, John H., ME '46 | 5 | 19 |
| Richardson, William, ME | 4 | 17 |
| Riehl, Bud, ME '46 | 7 | 17 |
| Ripley, Joseph Pierce, ME '12 | 5 | 15 |
| Sinclair, Robert, EE | 4 | 16 |
| Smith, Gordon S., EE '46 | 8 | 18 |
| Tulley, John, CE '46 | 5 | 19 |

# Index to Volume X

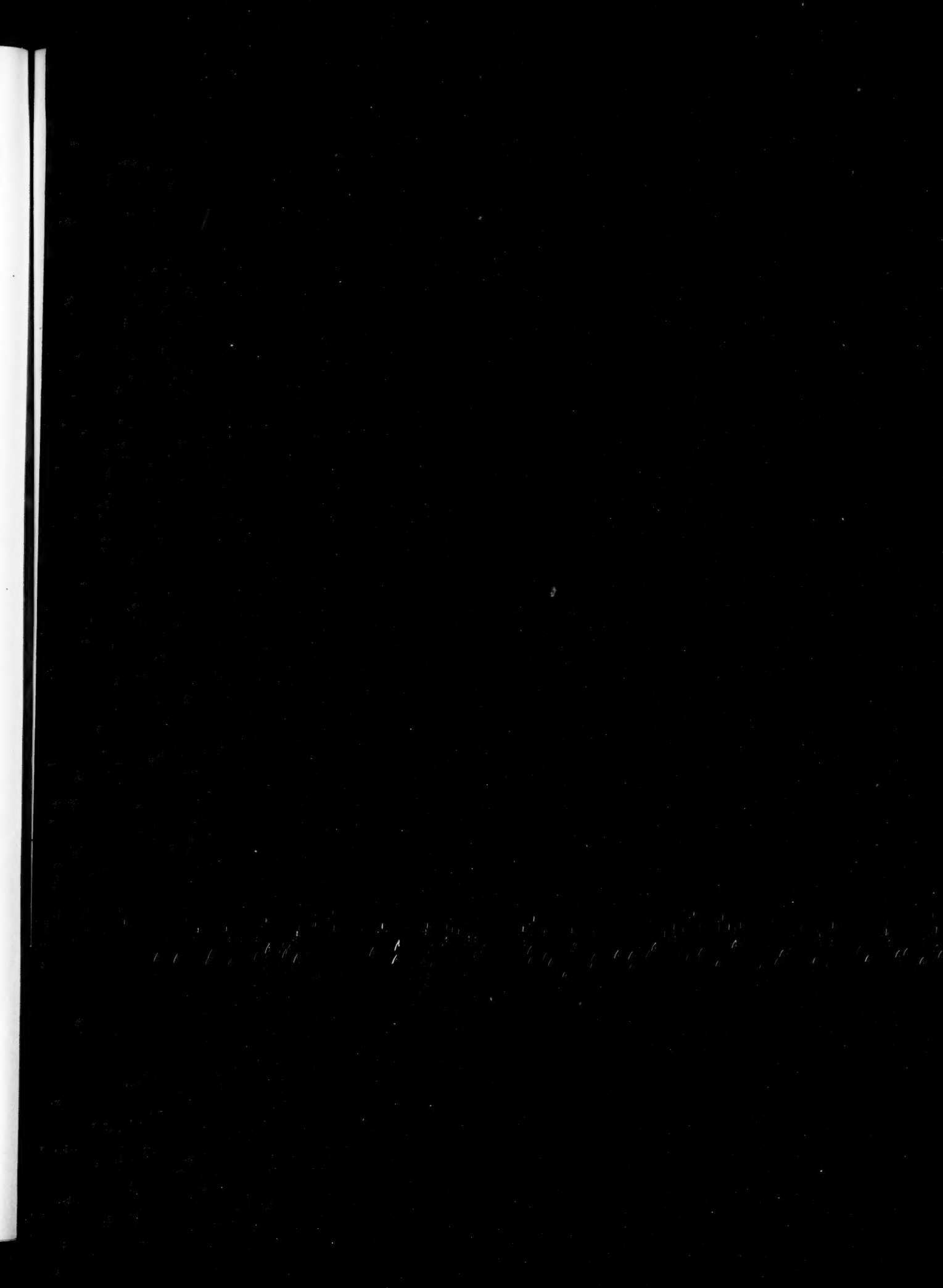
## ARTICLES


| | Number | Page |
|---|---|---|
| Aluminum—Structural Metal of the Future<br>Herbert S. Meltzer, CE '47 | 8 | 12 |
| Army Engineers, Thoughts and Deeds<br>Colonel Carlton S. Proctor | 2 | 9 |
| Carbon Dioxide Fire Extinguishers<br>Ronald M. Taylor | 3 | 9 |
| Ceramic Industry Today, The<br>Roderick W. Pearson, ChE '47 | 6 | 12 |
| Chemical Engineering in the Future<br>Professor F. H. Rhodes | 3 | 7 |
| Communications<br>Richard E. Goll, V-12 | 1 | 15 |
| Constructing the Iraq Pipeline<br>Herbert S. Austin | 6 | 9 |
| Cornell's Post War Engineering Plans<br>Dean S. C. Hollister | 1 | 64 |
| Developments in Communications—1<br>Walter R. Jones, E.E. '25 | 1 | 17 |
| Developments in Communications—2<br>Prof. C. A. Priest | 1 | 19 |
| Engineering at Cornell<br>1. Material Processing<br>Richard E. Goll, V-12 | 2 | 14 |
| Engineering at Cornell<br>2. Electrical Engineering Laboratories<br>Lawrence W. Simmons, V-12 | 3 | 18 |
| Engineering at Cornell<br>3. Department of Physics<br>L. R. Anderson, V-12 | 4 | 14 |
| Engineering at Cornell<br>4. Chemical Engineering Laboratories<br>Roderick W. Pearson, ChE '47 | 5 | 16 |
| Engineering at Cornell<br>5. An Experiment in Instruction<br>Prof. Louis L. Otto | 6 | 14 |
| Engineering at Cornell<br>6. Civil Engineering Laboratories<br>Adam Paul Friedrich, CE '46 | 7 | 14 |
| Engineering at Cornell<br>7. Materials Testing Laboratory<br>Anthony S. Rugare, ME '47 | 8 | 16 |
| Engineer In Russia, An<br>Prof. George Winter, Ph.D. '40 | 8 | 8 |
| Foods and Farming<br>Marguerite E. Haven, ME '45 | 1 | 37 |
| Future of Frozen Foods, The<br>Dr. Donald K. Tressler, Ph.D. '18 | 1 | 39 |
| Hardenability of Steel<br>Anthony S. Rugare, ME '47 | 3 | 14 |
| Housing<br>Roderick W. Pearson, ChE '47 | 1 | 27 |
| Hundred Helicopters, A<br>Charles C. Hansen, ME '46, V-12 | 7 | 12 |
| Instructional Material for Training Programs<br>Professor Lynn A. Emerson | 6 | 7 |
| Inter-American Industrial Standardization<br>Ben-Ami Lipetz, ME '47 | 3 | 12 |
| Legibility of Symbols as an Engineering Problem, The<br>Dr. Curt Berger | 4 | 7 |
| Machine that Took Lithography out of the Stone Age, The<br>Alan R. Hirsch, AEME '48 | 4 | 12 |
| Man and Weather<br>Morrie S. Helitzer, ME '46 | 4 | 10 |
| Materials<br>Ben-Ami Lipetz, ME '47 | 1 | 21 |
| Materials Tomorrow<br>Prof. J. O. Jeffrey | 1 | 24 |
| Mighty Mites of Industry<br>L. R. Anderson, V-12 | 2 | 12 |
| New Material and Construction Methods<br>Bernard A. Savage, M.E. '25 | 1 | 33 |
| Note on Post War Architecture, A<br>Frederick L. Ackermann, Arch. '01 | 1 | 29 |
| On The Air<br>Billie P. Carter, ChE '48 | 5 | 13 |
| Physics Applied<br>Anthony R. Morrow | 3 | 32 |
| Physical Methods in Production Control<br>Dr. Henri S. Sack | 5 | 8 |
| Post War Expressways<br>Dean Gilmore D. Clarke, B.S. '13 | 1 | 12 |
| Post War Wage Trends<br>Frank D. Newberry, M.E. '01 | 1 | 7 |
| Powder Metallurgy<br>Donald S. Ironside, EE '46 | 8 | 14 |
| Quarter Century of Engineering Retrospect, A<br>Prof. L. D. Doty | 7 | 10 |
| Radar History<br>Jacques L. Zakin, ChE '47 | 5 | 11 |
| Some Useful Laboratory Gadgets<br>Robert H. Olson, ChE '46 | 8 | 14 |
| Transportation<br>Malcolm E. Steinberg, CE '47 | 1 | 9 |
| U.S.S. Dolphin in Search of a Storm, The<br>Dr. W. F. Durand | 2 | 7 |


## AUTHORS


| | | |
|---|---|---|
| Ackermann, Frederick L., Arch. '01 | 1 | 29 |
| Anderson, L. R., ME, V-12 | 2,4 | 12,14 |
| Austin, Herbert S. | 6 | 9 |
| Berger, Dr. Curt | 4 | 7 |
| Carter, Billie P., ChE '48 | 5 | 13 |
| Clarke, Dean Gilmore D., B.S. '13 | 1 | 12 |
| Doty, Prof. L. D. | 7 | 10 |
| Durand, Dr. W. F. | 2 | 7 |
| Emerson, Prof. Lynn A. | 6 | 7 |
| Friedrich, Adam Paul, CE '46 | 7 | 14 |
| Goll, Richard E., V-12 | 1,2 | 15,14 |
| Hansen, Charles C., ME '46, V-12 | 7 | 12 |
| Haven, Marguerite E., ME '45 | 1 | 37 |
| Helitzer, Morrie S., ME '46 | 4 | 10 |
| Hirsch, Alan R., AEME '48 | 4 | 12 |
| Hollister, Dean S. C. | 1 | 64 |
| Ironside, Donald S., EE '46 | 8 | 14 |
| Jeffrey, Prof. J. O. | 1 | 24 |
| Jones, Walter R., E.E. '25 | 1 | 17 |
| Lipetz, Ben-Ami, ME '47 | 1,3 | 21,12 |
| Meltzer, Herbert S., CE '47 | 8 | 12 |
| Morrow, Anthony R. | 3 | 18 |
| Newbury, Frank D., M.E. '01 | 7 | 7 |
| Olson, Robert H., ChE '46 | 8 | 14 |
| Otto, Prof. Louis L. | 6 | 14 |
| Pearson, Roderick W., ChE '47 | 1,5,6, | 27,16,12 |
| Priest, Prof. C. A. | 1 | 19 |
| Proctor, Colonel Carlton A. | 2 | 9 |
| Rhodes, Prof. F. H. | 3 | 7 |
| Rugare, Anthony S., ME '47 | 3,8 | 14,16 |
| Sack, Dr. Henri S. | 5 | 8 |
| Savage, Bernard A., M.E. '25 | 1 | 33 |
| Simmons, Lawrence W., V-12 | 3 | 18 |
| Steinberg, Malcolm E., CE '47 | 1 | 9 |
| Taylor, Ronald M. | 3 | 9 |
| Tressler, Dr. Donald K., Ph.D. '18 | 1 | 39 |
| Winter, Prof. George, Ph.D. '40 | 8 | 8 |
| Zakin, Jacques L., ChE '47 | 5 | 11 |


## PERSONALITIES


| | | |
|---|---|---|
| Accorsi, Frank, ME | 4 | 16 |
| Allen, Roland P., CE | 3 | 17 |
| Bailey, George H., ME '46 | 7 | 16 |
| Brown, Calvin G., CE '46 | 8 | 18 |
| Carrier, Willis H. | 8 | 23 |
| Christtensen, Paul, AE '46 | 7 | 16 |
| Cranch, Edmund T., ME | 3 | 16 |
| Day, David, CE | 4 | 17 |
| Edison, James E., ChE '46 | 5 | 18 |
| Fraser, John P., ChE | 3 | 16 |
| Gieseler, Henry, ME '46 | 8 | 18 |
| Hansen, Charles C., ME | 6 | 17 |
| Haven, Marguerite E., ME '45 | 6 | 16 |
| Heartfield, Seth Jr., CE '45 | 6 | 16 |
| Hecht, Malcolm, ChE '46 | 5 | 18 |
| Kornhauser, Edward, EE | 3 | 17 |
| Lipetz, Ben-Ami, ME '47 | 6 | 17 |
| Littlewood, William, ME '20 | 7 | 21 |
| Moore, Harry C., Jr., ME '46 | 8 | 18 |
| Pierce, Donald R., Arch '46 | 7 | 17 |
| Rasch, John H., ME '46 | 5 | 19 |
| Richardson, William, ME | 4 | 17 |
| Riehl, Bud, ME '46 | 7 | 17 |
| Ripley, Joseph Pierce, ME '12 | 5 | 15 |
| Sinclair, Robert, EE | 4 | 16 |
| Smith, Gordon S., EE '46 | 8 | 18 |
| Tulley, John, CE '46 | 5 | 19 |